

MANUAL OF 1947 MOST-OFTEN-NEEDED RADIO DIAGRAMS

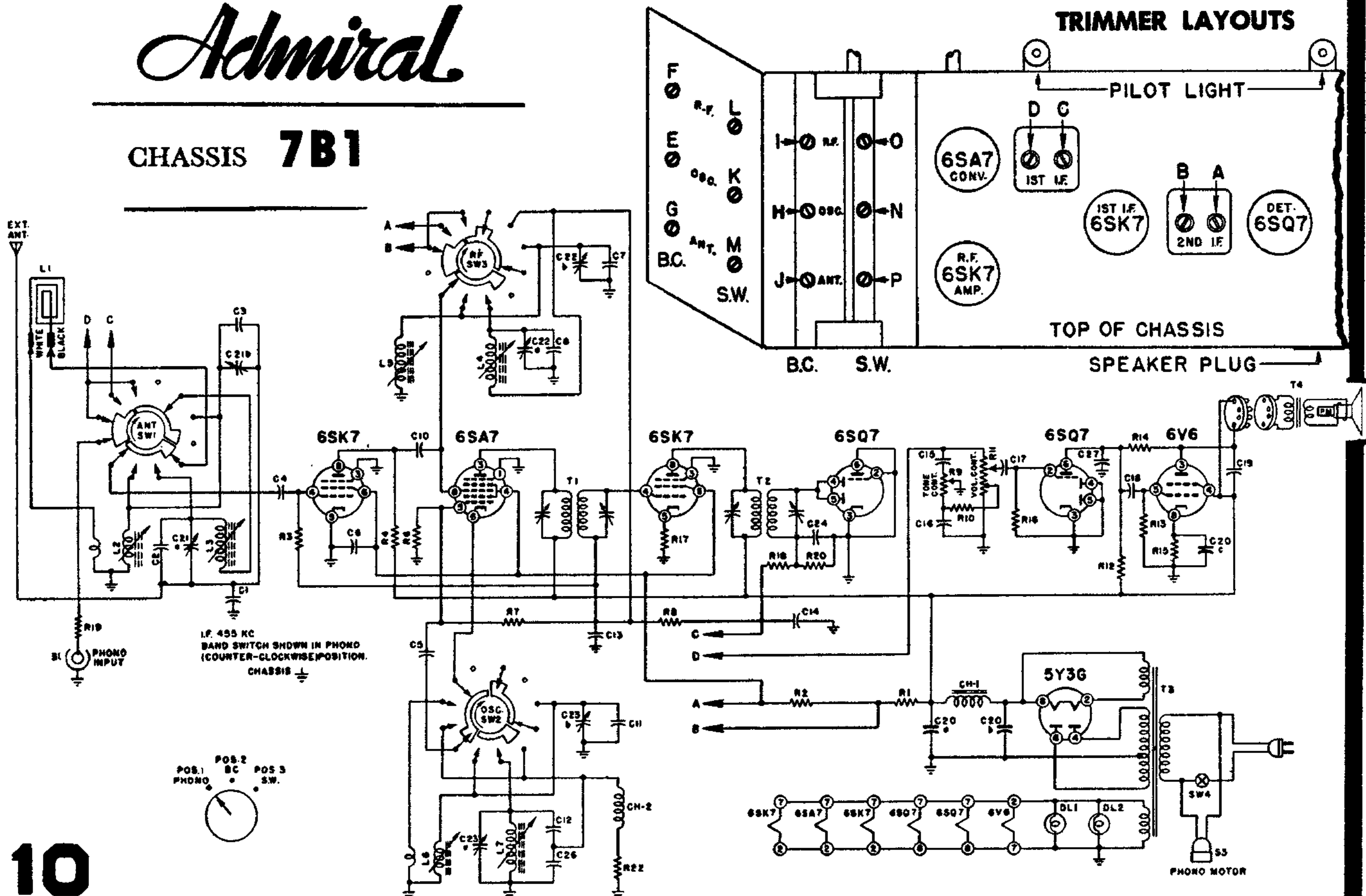
ALIGNMENT PROCEDURE

- Loop must be connected during alignment.
Check the set screws that hold the tuning drum to the shaft to see that they are tight and that the drum has not slipped on the shaft. The correct position of the drum can be seen on the stringing diagram.
- In the closed position the stop on the rear of the dial drum must be against the stop post.
- With the gang wide open, all slugs should be $1\frac{1}{8}$ inches out of their coil forms. If there is any serious deviation or if there has been any tampering, turn the adjusting screws until this distance is correct.
- Be sure both the set and the signal generator are thoroughly warmed up before starting alignment.
- Turn receiver Volume Control full on.
- Use lowest output setting of signal generator that gives a satisfactory reading on meter.
- Proceed in sequence as outlined below.

STEP	CONNECT SIGNAL GENERATOR TO	DUMMY ANTENNA BETWEEN RADIO AND SIGNAL GENERATOR	SIGNAL GENERATOR FREQUENCY	TUNING GANG SETTING	ADJ. TRIMMERS IN FOLLOWING ORDER TO MAX.
1	Set Band Change Switch to Broadcast Position. 6SA7 Grid (Pin #8)	.1 MFD.	455 K.C.	Set Pointer to Upper Limit	A, B, C, D
2	Before proceeding to step 3 check pointer travel as outlined under paragraph below headed "Pointer Adjustment."				
3	Black Loop Lead	20 MMFD. If not available wrap several turns of the generator lead around the black loop lead.	1605 K.C.	Set Pointer to Upper Limit	E, F, G
4	Black Loop Lead		1300 K.C.	Set Pointer to 1300 Mark on Slide Rail	H, I, J
5	Set Band Change Switch to Short Wave Position.				
6	Black Loop Lead	400 Ohms	12.5 M.C.	Set Pointer to Upper Limit	K, L, M
7	Black Loop Lead	400 Ohms	12.0 M.C.	Set Pointer to 1300 Mark on Slide Rail	N, O, P

Admiral

CHASSIS 7B1



REPLACEMENT PARTS

RESISTORS			CONDENSERS (Cont'd)			MISCELLANEOUS		
Symbol	Description	Part No.	Symbol	Description	Part No.	Description	Part No.	
R1	12,000 Ohms 5 Watt	61A1-7	C18	.01 Mfd., 400 Volts, Condenser	64B1-28	Background, Dial	22B7-1	
R2	150,000 Ohms 1/2 Watt	60B8-154	C19	.01 Mfd., 600 Volts, Condenser	64B1-10	Bulb, Pilot Light No. 47	81A1-8	
R3	470,000 Ohms 1/2 Watt	60B8-474	C20a	30 Mfd., 350 Volts	67C6-28	Button (For Phono switch button)	33A8-1	
R4	10,000 Ohms 2 Watt	60B20-103	C20b	30 Mfd., 350 Volts		Cable and Plug, Shielded	89A5-1	
R5	22,000 Ohms 1/2 Watt	60B8-223	C20c	20 Mfd., 25 Volts	66A1-5	Card, Dial (64" approx.)	50A1-3	
R6	10 Megohms 1/2 Watt	60B8-106	C21a	3-40 Mmfd. Trimmer		Drum, Dial	17A3	
R7	1 Megohm 1/2 Watt	60B8-105	C21b	3-40 Mmfd. Trimmer	66A1-5	Escutcheon, Dial	21C7-1	
R8	2 Megohms, Tone Control	75B1-5	C22a	3-40 Mmfd. Trimmer		Escutcheon, Switch	26A7-1	
R9	27,000 Ohms 1/2 Watt	60B8-273	C22b	3-40 Mmfd. Trimmer	66A1-5	Knob, Tuning	33B9-1	
R10	1 Megohm, Volume Control	75B2-1	C23a	3-40 Mmfd. Trimmer		Knob, SW, B.C., Phono	33B9-2	
R11	Tapped at Approx. 500,000 ohms	60B8-274	C23b	3-40 Mmfd. Trimmer	Knob, Tone	33B9-3		
R12	270,000 Ohms 1/2 Watt	60B8-474	C24	100 Mmfd., Mica	Knob, Volume	33B9-4		
R13	470,000 Ohms 1/2 Watt	60B8-105	C26	1,200 Mmfd., Mica	Pin Tip, Antenna (Large)	86A2-1		
R14	1 Megohm 1/2 Watt	60B14-391	C27	100 Mmfd., Mica	Pin Tip, Antenna (Small)	86A2-2		
R15	390 Ohms 1 Watt	60B8-106	TRANSFORMERS and COILS			Plug, Speaker	88A4-4	
R16	10 Megohms 1/2 Watt	60B8-101	Symbol	Description	Part No.	Plug, Phono Output	88A2-1	
R17	100 Ohms 1/2 Watt	60B8-473	L1	Antenna, Loop	AC104	Pointer, Dial	25A3	
R18	47,000 Ohms 1/2 Watt	60B8-104	L2	Coil, S.W. Antenna	AD116-1	Slug, B.C. Tuning—Specify color code when ordering	71B1-3	
R19	100,000 Ohms 1/2 Watt	60B8-274	L3	Coil, B.C. Antenna	AB100-2	Slug, S.W. Tuning—Specify color code when ordering	71B1-9	
R20	270,000 Ohms 1/2 Watt	60B8-101	L4	Coil, B.C. R.F.	AB100-1	Socket, Dial Light	82A2-1	
R22	100 Ohms 1/2 Watt	60B8-101	L5	Coil, S.W. R.F.	AD116-2	Socket, Speaker	B7A6-1	
CONDENSERS			L6	Coil, S.W. Oscillator	AD116-3	Speaker	78B7	
Symbol	Description	Part No.	L7	Coil, B.C. Oscillator	AC101-1	Spring, Drum Tension	19B1-7	
C1	1,000 Mmfd., Mica	65B7-33	T1	Transformer, 1st I.F.	72B7	Stud, Slug adjusting	27A4	
C2	140 Mmfd., Silver Mica 3%	65B1-26	T2	Transformer, 2nd I.F.	72B8	PHONOGRAPH PARTS		
C3	25 Mmfd., Silver Mica 3%	65B1-28	T3	Transformer, Power	80B1	See Record Changer Service Manual for Detailed Parts List.		
C4	100 Mmfd., Mica	65B7-17	T4	Transformer, Output	98B6-1	Description	Part No.	
C5	30 Mmfd., Mica	65B5-11	CH1	Choke, Filter	74A3	Centerpost	G400A12	
C6	.05 Mfd., 400 Volts	64B1-22	CH2	Choke, Oscillator Cathode	AB103-7	Crystal Cartridge	409A1	
C7	65 Mmfd., Silver Mica 3%	65B1-27	SWITCHES, PLUGS and SOCKETS			Idle Wheel (407B3 Motor)	G400A23	
C8	420 Mmfd., Silver Mica 2%	65B1-13	Symbol	Description	Part No.	Idle Wheel (407B2 Motor)	G400A59	
C9	20 Mmfd., Mica	65B7-5	S1	Socket, Phono	B8A1	Idle Wheel (407B1 Motor)	G400A57	
C10	65 Mmfd., Silver Mica 3%	65B1-27	S2	Socket, Speaker	B7A6-1	Motor, 60 cycle 115 volt, A.C. (Types 407B1 & 407B2 also used)	407B3	
C11	200 Mmfd., Silver Mica 2%	65B1-14	S3	Socket and Cord, Phono Motor	89A6-3			
C12	.1 Mfd., 400 Volts	64B1-20	SW1	Switch, Antenna	76B1-3			
C13	250 Mmfd., Mica	65B7-22	SW2	Switch, Oscillator	76B1-2			
C14	1,000 Mmfd., Mica	65B7-33	SW3	Switch, R.F.	76B1-1			
C15	.02 Mfd., 400 Volts	64B1-24	SW4	Switch (on-off) S.P.S.T.	77B1-44			
C16	.01 Mfd., 400 Volts, Condenser	64B1-25						

POINTER ADJUSTMENT

Move the dial pointer by means of the tuning control knob to see that it reaches the upper and lower limits as shown on the stringing diagram. In the upper limit position measure the distance D-E and in the lower limit position measure the distance A-B. The distance from A and B must be the same as the distance from D to E. If these distances are not equal, unclamp and move the pointer slide on the string until they are the same. The pointer should be checked again at the upper and lower limit to be sure that it is right. Take care to see that the pointer does not slip during this operation. Reclamp the pointer slide tightly to the string and seal with any quick-drying cement. Set the tuning gang wide open and proceed with operation 3.

REPLACING TUNING SLUG

If it becomes necessary to change a tuning slug proceed in the following manner: Set the gang to its wide open position, unsolder and remove the old slug. Set the slug adjusting screw about half way down. Place the new slug in such a position that 1 1/2 inches of its length is above the coil form. Solder it in this position making sure that it does not slip during the operation and that the slug wire is straight. Proceed to realign the set as shown in the chart.

STRINGING DIAGRAM

VOLTAGE CHART

